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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	4

Complete if Known

Application Number	10/614,335
Filing Date	July 7, 2003
First Named Inventor	Keeler et al.
Group Art Unit	2121
Examiner Name	George B. Davis
Attorney Docket Number	PAVI-26,470

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
乙.Ψ	1	4,802,103		Faggin et al.	01/1989	
	2	4,813,077		Woods et al.	03/1989	
	3	4,872,122		Altschuler et al.	01/1989	
	4	4,910,691		Skeirik	03/1990	
	5	4,965,742		Skeirik	10/1990	
	6	5,006,992		Skeirik	04/1991	
	7	5,052,043		Gaborski	09/1991	
	8	5,081,651		Kubo	01/1992	
	9	5,111,531		Grayson et al.	05/1992	
	10	5,113,483		Keeler et al.	05/1992	
	11	5,121,467		Skeirik	06/1992	
	12	5,140,523		Frankel et al.	08/1992	
	13	5,150,313		van den Engh et al.	09/1992	
	14	5,175,797		Funabashi et al.	12/1992	
	15	5,255,347		Matsuba et al.	10/1993	
	16	5,276,771		Manukian et al.	01/1994	
	17	5,335,291		Kramer et al.	08/1994	
	18	5,353,207		Keeler et al.	10/1994	
Ψ	19	5,402,519		Inoue et al.	03/1995	
乙.Ψ	20	5,444,820		Tzes et al.	08/1995	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
乙Ψ	1	EP	0262647	A3	Toshiba	04-06-1988		
乙Ψ	2	EP	0327268	A2	AT&T	08-09-1989		
6.Ψ	3	EP	0436916	A2	Motorola Inc.	07-17-1991		
C.Ψ	4	WO	94/17489		Pavilion Technologies, Inc.	08-04-1994		
乙Ψ	5	WO	94/12948		Pavilion Technologies, Inc.	06-09-1994		
乙Ψ	6	WO	94/17482		Pavilion Technologies, Inc.	08-04-1994		

Examiner Signature	George Davis	Date Considered	3/6/05

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(use as many sheets as necessary)*		Application Number	10/614,335
		Filing Date	July 7, 2003
		First Named Inventor	Keeler et al.
		Group Art Unit	2121
		Examiner Name	George B. Davis
Sheet 2 of 4		Attorney Docket Number	PAVI-26,470

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	U.S. Patent Document Number	Kind Code² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/L	21	5,461,699		Arababi et al.	10/1995	
C.J	22	5,467,428		Ulug	11/1995	
L	23	5,479,573		Keeler et al.	12/1995	
L	24	5,559,690		Keeler et al.	09/1996	
L	25	5,581,459		Enbutsu et al.	12/1996	
L	26	5,613.041		Keeler et al.	03/1997	
L	27	5,659,667		Buescher et al.	08/1997	
G-	28	5,704,011		Hensen et al.	12/1997	
C	29	5,720,003		Chiang et al.	02/1998	
G-	30	5,729,661		Keeler et al.	03/1998	
C	31	5,819,006		Keeler et al.	10/1998	
L	32	6,002,839		Keeler et al.	12/1999	
L	33	6,169,980		Keeler et al.	01/2001	
L	34.	6,314,414		Keeler et al.	11/2001	
L	35	6,613,041		Keeler et al.	03/1997	
L	36	6,591,254		Keeler et al.	07/08/2003	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	Foreign Patent Document Office³	Number⁴	Kind Code⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁶

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known	
Application Number	10/614,335
Filing Date	July 7, 2003
First Named Inventor	Keeler et al.
Group Art Unit	2121
Examiner Name	George B. Davis
Attorney Docket Number	PAVI-26;470

Sheet 3 of 4

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Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	1	PHOHA, SHASHI; "Using the National Information Infrastructure (NII) for Monitoring, Diagnostics and Prognostics of Operating Machinery," IEEE Proceedings of the 35th Conference on Decision and Control, Kobe, Japan, pp. 2583-2587, Dec. 1996.	
	2	HARTMAN, ERIC J., KEELER JAMES D., KOWALSKI, JACEK M.; "Layered Neural Networks with Gaussian Hidden Units as Universal Approximations," Neural Computation 2, 1990, Massachusetts Institute of Technology, pp. 210-215.	
	3	HARTMAN, ERIC, KEELER, JAMES D.; "Predicting the Future: Advantages of Semilocal Units," Neural Computation 3, 1991, Massachusetts Institute of Technology, pp. 566-578.	
	4	PRESS, WILLIAM H., FLANNERY, BRIAN P., TEUKOLSKY, SAUL A., VETTERLING, WILLIAM T.; Numerical Recipes: The Art of Scientific Computing, 1986, ch. 3, "Interpolation and Extrapolation," pp. 77-101.	
	5	SERTH, R.W., HEENAN, W. A.; "Gross Error Detection and Data Reconciliation in Steam-Metering Systems," AIChE Journal, vol. 32, No. 5, May 1986, pp. 733-742.	
	6	MYUNG-SUB ROH et al.; Thermal Power Prediction of Nuclear Power Plant Using Neural Network and Parity Space Model, IEEE Transactions on Nuclear Science, vol. 38, no. 2, Apr. 1991, pp. 866-72.	
	7	AUTERE, ANTTI; On Correcting Systematic Errors Without Analyzing Them by Performing a Repetitive Task, IEEE / RSI International Workshop on Intelligent Robots and Systems IROS '91, Nov. 3-5, 1991, pp. 472-7.	
	8	KIMOTO, TAKASHI et al.; Stock Market Prediction System with Modular Neural Networks, IEEE, Jun. 1990, pp. I-1 to I-6.	
	9	DORRONSORO ET AL.; "Neural Fraud Detection in Credit Card Operations," IEEE Transactions on Neural Networks, VOL. 8, NO. 4, Jul. 1997, PP. 827-34.	

Examiner Signature	George Davis	Date Considered	3/6/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Filing Date	July 7, 2003
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Sheet 4 of 4	Attorney Docket Number	PAVI-26,470

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G·Y	10	SPENCELEY, S.E., WARREN, J.R.; "The Intelligent Interface for Online Electronic Medical Records Using Temporal Data Mining," IEEE Xplore, Proceedings of the 31st Annual Hawaii, International Conference on System Sciences. Jan. 1998, pp. 266-745.	
G·V	11	KOUTSOUGERAS; "A feedforward neural network classifier model: multiple classes, confidence output values, and implementation," International Journal of Pattern Recognition and Artificial Intelligence Ed. World Scientific Publishing Co., October 1992, vol. 6, no. 4, pp. 539-569.	
G·V	12	LAPEDES, ALAN, FARBER, ROBERT; "How Neural Nets Work," American Inst. of Physics, 1988, pp. 442-457.	
C·V	13	WEIGEND, ANDREAS S., HUBERMAN, BERNARDO A., RUMELHART, DAVID E; "Predicting the Future: A Connectionist Approach," Stanford University, Stanford-PDP-90-01/PARC-SSL-90-20, Apr. 1990.	
G·V	14	RUMELHART, D.E., HINTON, G.E., WILLIAMS. R.J.; "Learning Internal Representations by error Propagation," Parallel Distributed Processing, vol. 1, 1986.	
G·V	15	RANDER, P.W., UNNIKRISHNAN, K.P.; "Learning the Time-Delay Characteristics in a Neural Network," ICAAADDP-92-IEEE International Conference on Acoustics, Speech and Signal Processing, Mar. 23, 1992, vol. 2, pp. 285-288.	
G·V	16	TAM, DAVID C., PERKEL, DONALD H.; "A Model for Temporal Correlation of biological Neuronal Spike Trains," IJCNN INt. Joint Conference of Neural Networks, Dept. of Physiology and Biophysics, University of California, pp. I-781 - I-786.	
G·V	17	LEVIN, ESTHER, GEWIRTZMAN, RAANAN, INBAR, GIDEON F.; "Neural Network Architecture for Adaptive System Modeling and Control," Neural Networks, 4(1991) No. 2, pp. 185-191.	
G·V	18	TROUDET, T., GARG, S., MATTERN, D. MERRILL, W.; "Towards Practical Control Design Using Neural Computation," ICJNN-91-Seattle--International Joint Conference on Neural Networks, vol. 2, pp. 675-681, Jul 8, 1991.	
G·V	19	BEERHOLD, J.R., JANSEN, M., ECKMILLER, R.; "Pulse-Processing Neural Net Hardware with Selectable Topology and Adaptive Weights and Delays," IJCNN International Joint Conference on Neural Networks, Jun. 17, 1990, vol. 2, pp. 569-574.	
G·V	20	HAFFNER, PATRICK, FRANZINI, MICHAEL, WAIBEL, ALEX; "Integrating Time Alignment and Neural Networks for High performance Continuous Speech Recognition," ICASSP 91, sponsored by The Inst. of electrical and Electronics Engineers, Signal Processing Society, 1991 Int. Conf. on Acoustics, Speech and Signal Processing, May 14-17, 1991, pp. 105-108.	

Examiner Signature	George Davis	Date Considered	3/6/05

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